

Urban Small Sites BMP Manual Annotated Bibliography

Stormwater BMP Manuals

Title: Boise Storm Water Standards
Sub Title: When it Rains it Drains
Authors: Boise Public Works Department
Publication Date: 1999
Source: Boise Public Works Department
Document Type: General Stormwater and BMP Manual
Publication #:
Link:
Format: Hardcopy
Types of BMPs: Prevention: None
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands
Sediment Control: Construction / Soil Erosion / Sediment Control
Depth of Information: Moderate
Nature of Information: Conceptual / Design
Level of Detail: Medium
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Somewhat Applicable
Description: Design standards manual for the city of Boise, ID. This is not a design manual rather, a manual which provides guidelines to meet the treatment requirements for the city of Boise, ID. The manual provides guidelines for the applicability, sizing, construction, pretreatment, and design of individual stormwater treatment BMPs. The information is similar to that found in other stormwater BMP manuals.
Notes: This is a draft manual and is incomplete. Document provides familiar information for the most common BMPs.

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Stormwater BMP Manuals

Title: Developing Successful Runoff Control Programs for Urbanizing Areas
Sub Title: Stormwater Issues and Management Manual
Authors: Northern Virginia Soil and Water Conservation District, Fairfax, VA
Publication Date: July, 1994
Source: Northern Virginia Soil and Water Conservation District, Fairfax, VA
Document Type: General Stormwater and BMP Manual
Publication #: EPA 841-K-94-003
Link: <http://www.bts.gov/smart/cat/RUNOFF.html>
Format: Web - Based
Types of BMPs: Prevention: None
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands
Sediment Control: Construction / Soil Erosion / Sediment Control
Depth of Information: Cursory
Nature of Information: Conceptual
Level of Detail: Low
Applicability to Small Sites: Not Applicable
Applicability to Cold Climate: Not Applicable
Description: Policy manual for implementing urban stormwater BMP practices. Brief descriptions of specific BMPs are given to familiarize the reader with available technologies. No information as to design, construction, or maintenance is provided. Limited performance information is provided however, it is quite limited in nature. Case studies of stormwater management programs and BMP implementation are given for Alexandria, VA, Massachusetts, Austin, TX, Orlando, FL, Fairfax, VA, Eugene, OR and Portland, OR.
Notes: Not applicable.

Urban Small Sites BMP Manual Annotated Bibliography

Stormwater BMP Manuals

Title: Highway Runoff Manual

Sub Title:

Authors: Washington State Dept of Transportation

Publication Date: February, 1995

Source: Environmental and Engineering Service Center

Document Type: General Stormwater and BMP Manual

Publication #: M 31 - 16

Link: <http://www.wsdot.wa.gov/hq/library/Ref/pubs.htm#wsdot>

Format: Digital - pdf

Types of BMPs: Prevention: None
Stormwater: Detention / Retention / Infiltration
Sediment Control: Construction / Soil Erosion / Sediment Control

Depth of Information: Cursory

Nature of Information: Conceptual / Design

Level of Detail: Low

Applicability to Small Sites: Somewhat Applicable

Applicability to Cold Climate: Somewhat Applicable

Description: The manual provides background information on stormwater hydrology and water quality issues with an emphasis on transportation related issues. Significant portions of the manual are devoted to runoff issues, hydrology, minimum treatment recommendations, stormwater BMPs, erosion and sediment control BMPs, maintenance requirements and operational guidelines.

Notes: General guidance – no figures or illustrations – limited computations.

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Stormwater BMP Manuals

Title: King County, Washington Surface Water Design Manual
Sub Title:
Authors: King County Department of Natural Resources
Publication Date: September, 1998
Source: King County Department of Natural Resources
Document Type: Stormwater BMP Design Manual
Publication #:
Link:
Format: Hardcopy
Types of BMPs: Prevention: None
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands / Hydraulic Devices
Sediment Control: None
Depth of Information: Comprehensive
Nature of Information: Conceptual / Design
Level of Detail: High
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Somewhat Applicable
Description: This is a comprehensive stormwater BMP design manual. It provides information necessary to stormwater management systems and BMPs. This includes hydrologic analyses of storm events and BMP performance, design of stormwater conveyance systems, flow control and treatment BMP design and a number of appendices which address maintenance requirements, small site considerations and erosion and sediment control standards. This is one of the most complete design manuals in this bibliography.
Notes: Very useful document. Figures are excellent and available in digital format. Design criteria are clear and complete. Construction, maintenance, environmental, and sequencing issues are addressed.

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Stormwater BMP Manuals

Title: Maryland Stormwater Design Manual
Sub Title:
Authors: Maryland Department of the Environment
Publication Date: 1998
Source: Maryland Department of the Environment
Document Type: Digital - pdf
Publication #:
Link: <http://www.mde.state.md.us/environment/wma/stormwatermanual/>
Format: Digital - pdf
Types of BMPs: Prevention: Housekeeping / Low Impact Development / Operations and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands / Hydraulic Devices
Sediment Control: Construction / Soil Erosion / Sediment Control
Depth of Information: Comprehensive
Nature of Information: Conceptual / Design
Level of Detail: High
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Applicable
Description: The manual provides guidance to protect the waters of the State from adverse impacts of urban runoff, provides guidance on the most effective structural and non-structural BMPs for development sites, and to improve the quality of BMPs that are constructed in the State, specifically with regard to performance, longevity, safety, ease of maintenance, community acceptance and environmental benefit.
Notes: Specific design criteria and computations included. Figure quality varies by BMP. Comprehensive performance criteria included.

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Stormwater BMP Manuals

Title: Pennsylvania Handbook of Best Management Practices for Developing Areas
Sub Title:
Authors: Pennsylvania Association of Conservation Districts
Publication Date: 1999
Source: Pennsylvania Association of Conservation Districts
Document Type: General Stormwater and BMP Manual
Publication #:
Link: http://www.pacd.org/products/bmp/bmp_handbook.htm
Format: Web - Based
Types of BMPs: Prevention: None
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands
Sediment Control: Sediment Control

Depth of Information: Cursory
Nature of Information: Conceptual
Level of Detail: Medium
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Limited Applicability
Description: An online BMP Handbook. Provides conceptual descriptions of BMPs as well as BMP design criteria. Also addresses maintenance and retrofitting. Scope and depth are quite limited.
Notes: Very general. Not useful as a BMP Design Manual.

Urban Small Sites BMP Manual Annotated Bibliography

Stormwater BMP Manuals

Title: Planning and Design Manual for the Control of Erosion, Sediment, and Stormwater
Sub Title:
Authors: USDA NRCS and Mississippi Dept. of Environmental Quality
Publication Date: April, 1994
Source: USDA NRCS and Mississippi Dept. of Environmental Quality
Document Type: Stormwater BMP Design Manual
Publication #:
Link: <http://grapevine.abe.msstate.edu/csd/p-dm/>
Format: Digital - pdf
Types of BMPs: Prevention: Housekeeping / Low Impact Development / Operations and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands / Hydraulic Devices
Sediment Control: Construction / Soil Erosion / Sediment Control
Depth of Information: Moderate
Nature of Information: Conceptual / General Design
Level of Detail: Medium
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Applicable
Description: Typical NRCS manual design based upon older SCS design computational methodologies. Covers a wide array of BMPs, many not applicable to urban or developing areas. Includes numerous design figures, sizing nomographs, and photographs of implemented BMPs. Quality and depth of information is inconsistent throughout the manual.
Notes: Very large array of BMPs presented. The quality of design computations and drawings varies with each BMP. Design drawings, specification worksheets and design guidelines are included for each BMP. Good source of simple figures which illustrate the design of each BMP. Good source for general outlet devices and specifications.

Urban Small Sites BMP Manual

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Stormwater BMP Manuals

Title: Protecting Water Quality in Urban Areas

Sub Title: Best Management Practices for Dealing with Storm Water Runoff from Urban, Suburban and Developing Areas of Minnesota

Authors: Minnesota Pollution Control Agency

Publication Date: March, 2000

Source: Minnesota Pollution Control Agency

Document Type: Stormwater BMP Design Manual

Publication #:

Link: <http://www.pca.state.mn.us/water/pubs/sw-bmpmanual.html>

Format: Hardcopy

Types of BMPs: Prevention: Housekeeping / Low Impact Development / Operations and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands / Hydraulic Devices
Sediment Control: Construction / Soil Erosion / Sediment Control

Depth of Information: Comprehensive

Nature of Information: Conceptual / Design

Level of Detail: High

Applicability to Small Sites: Applicable

Applicability to Cold Climate: Applicable

Description: A comprehensive BMP reference. Content is largely borrowed from familiar sources. Provides a good deal of information on pollution prevention, erosion control, and sediment control. Some generalized information regarding the use of proprietary devices is included.

Notes: Content on BMPs is borrowed from other sources. Figures are familiar and of good quality. No design computations.

Urban Small Sites BMP Manual Annotated Bibliography

Stormwater BMP Manuals

Title: Protecting Natural Wetlands
Sub Title: A Guide to Stormwater Best Management Practices
Authors: EPA
Publication Date: October , 1996
Source: Office of Water, EPA
Document Type: Stormwater BMP Design Manual
Publication #: EPA-843-B-96-001
Link: <http://www.epa.gov>
Format: Digital - pdf
Types of BMPs: Prevention: Housekeeping / Low Impact Development / Operations and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands / Hydraulic Devices
Sediment Control: Construction / Soil Erosion / Sediment Control

Depth of Information: Comprehensive
Nature of Information: Conceptual / Design
Level of Detail: Medium
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Applicable
Description: A comprehensive BMP manual three sections, including the following: Factors to consider when selecting BMPs, Case studies of BMPs in practice in each EPA region, and 22 BMPs in fact sheet layout with simple benefits, limitations and minimal requirements sections.
Notes: Very informative – well-organized fact sheet format. Figure quality varies by BMP.

Urban Small Sites BMP Manual Annotated Bibliography

Stormwater BMP Manuals

Title: Stormwater Best Management Practices

Sub Title:

Authors: North Carolina Department of Environment and Natural Resources – Water Quality

Publication Date: April, 1999

Source: North Carolina Department of Environment and Natural Resources – Water Quality

Document Type: General Stormwater and BMP Manual

Publication #: EPA 841-K-94-003

Link: <http://www.bts.gov/smart/cat/RUNOFF.html>

Format: Web - Based

Types of BMPs: Prevention: None
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands
Sediment Control: None

Depth of Information: Comprehensive

Nature of Information: Conceptual / Design

Level of Detail: High

Applicability to Small Sites: Applicable

Applicability to Cold Climate: Applicable

Description: A concise stormwater BMP reference. This document is very comprehensive with a chapter devoted to each of the most commonly used stormwater treatment BMPs in North Carolina. An excellent reference.

Notes: Very concise, nice document. Contains examples of designs and computations for the application of each BMP. Provides advantages and disadvantages for each BMP. Excellent figures.

Urban Small Sites BMP Manual Annotated Bibliography

Stormwater BMP Manuals

Title: Stormwater Management Plan

Sub Title:

Authors: Washington State Department of Transportation

Publication Date: March, 1997

Source: Washington State Department of Transportation

Document Type: Stormwater Management Manual

Publication #: 40 CFR 122.26(d)2.iv

Link:

Format: Digital - pdf

Types of BMPs: Prevention: None
Stormwater: Filtration / Biofiltration / Hydraulic & Proprietary Devices
Sediment Control: None

Depth of Information: Cursory

Nature of Information: Conceptual

Level of Detail: Varies

Applicability to Small Sites: Somewhat Applicable

Applicability to Cold Climate: Somewhat Applicable

Description: This is a stormwater management manual. Specific information regarding individual BMPs is not provided. The manual is designed to facilitate the decision making process when planning for stormwater management initiatives. The manual provides a good deal of information on the types, nature, and characteristics of pollutants that exist in stormwater runoff. All of the common stormwater pollutants are covered as well as petroleum based pollutants, heavy metals, numerous chemical species, and other pollutants normally associated with intensive industrial and transportation based land uses.

Notes: Not useful for typical BMPs. Does provide information for experimental BMPs that target pollutants containing organic, petroleum, and heavy metal constituents. A good source for information on stormwater pollution and proprietary devices. Maintenance guidelines are provided for numerous stormwater BMPs including ponds, infiltration and filters.

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Stormwater BMP Manuals

Title: Stormwater Management Planning and Design Manual
Sub Title: Draft Final Report
Authors:
Publication Date: November, 1999
Source: Ministry of the Environment, Ontario, Canada
Document Type: Stormwater BMP Design Manual
Publication #:
Link: <http://www.ene.gov.on.ca/envision/env%5Freg/er/documents/stormwatermanual/index.htm>
Format: Digital - pdf
Types of BMPs: Prevention: Housekeeping / Low Impact Development / Operations and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands / Hydraulic Devices
Sediment Control: Construction / Soil Erosion / Sediment Control
Depth of Information: Comprehensive
Nature of Information: Conceptual / Design
Level of Detail: High
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Very Applicable
Description: A very well researched planning and design manual. Provides a breadth of information for all types of BMPs ranging from lot level housekeeping practices to regional stormwater treatment facilities. Also included are design examples, operations and maintenance costs, capital costs, and appendices addressing processes fundamental to the appropriate design and implementation of BMPs. Cold climate considerations are addressed.
Notes: Very useful for the MCES BMP manual. Figures are simple and not of good quality. Manual addresses the specific mechanisms that affect the performance of BMPs.

Urban Small Sites BMP Manual Annotated Bibliography

Stormwater BMP Manuals

Title:	Stormwater Management in Washington State
Sub Title:	Volume V – Runoff Treatment BMPs
Authors:	Washington State Dept of Ecology
Publication Date:	August, 2000
Source:	Washington State Dept of Ecology
Document Type:	Stormwater BMP Design Manual
Publication #:	99 - 15
Link:	http://www.ecy.wa.gov/pubs.shtm
Format:	Digital - pdf
Types of BMPs:	Prevention: Housekeeping / Low Impact Development / Operations and Maintenance Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands / Hydraulic Devices Sediment Control: Construction / Soil Erosion / Sediment Control
Depth of Information:	Comprehensive
Nature of Information:	Conceptual / Design
Level of Detail:	High – varies by BMP
Applicability to Small Sites:	Applicable
Applicability to Cold Climate:	Somewhat Applicable
Description:	Very comprehensive BMP design manual for stormwater management in the Puget Sound Basin. Provides guidance for BMP selection and design including specific design elements, expected removal efficiencies, and special emphasis on small sites. Covers a wide array of BMPs including roof tops and pervious pavements.
Notes:	Very informative – good source for hydraulic structures, good figures & illustrations. Specific info on enhanced treatment and pre-treatment.

Urban Small Sites BMP Manual Annotated Bibliography

Stormwater BMP Manuals

Title: Stormwater Management
Sub Title: Volume Two: Stormwater Technical Manual
Authors: Massachusetts Department of Environmental Protection
Publication Date: March, 1997
Source: Massachusetts Department of Environmental Protection
Document Type: Stormwater BMP Design Manual
Publication #:
Link: <http://www.magnet.state.ma.us/dep/brp/ww/wwwpubs.htm#storm>
Format: Digital - pdf
Types of BMPs: Prevention: Housekeeping / Low Impact Development / Operations and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands
Sediment Control: None

Depth of Information: Comprehensive
Nature of Information: Conceptual / Design
Level of Detail: High
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Applicable

Description: A concise technical manual that presents BMP guidance in the selection and design of BMPs for stormwater management. No cost information or specific sizing computations are provided. However, a generalized BMP sizing process is provided which allows the user to determine the required volume of a BMP. Excellent coverage of issues associated with BMPs including expected performance, construction issues, sequencing, and target pollutants.

Notes: Good source for BMP selection and issues/concerns associated with various BMPs. Quality of figures is fair to good. Good source for design, construction, and maintenance criteria.

Urban Small Sites BMP Manual Annotated Bibliography

Stormwater BMP Manuals

Title: Stormwater Quality Best Management Practices
Sub Title:
Authors: Ministry of the Environment
Publication Date: 1991
Source: Ministry of the Environment, Ontario, Canada
Document Type: General Stormwater and BMP Manual
Publication #: PIBS 1599
Link:
Format: Hardcopy
Types of BMPs: Prevention: None
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands
Sediment Control: Erosion Control

Depth of Information: Comprehensive
Nature of Information: Conceptual / Design
Level of Detail: High
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Limited Applicability
Description: A BMP design manual for Ontario, Canada. Features a literature review, expected BMP performance, capitol costs, operations and maintenance costs, BMP selection criteria and sizing computations. Figures and diagrams are included in appendices. Issues of concern are also addressed for BMPs. Manual focuses on ponds but does provide information for infiltration basins and wetlands.
Notes: Good source for BMP issues and costs, maintenance, and removal efficiencies.

Urban Small Sites BMP Manual Annotated Bibliography

Stormwater BMP Manuals

Title: Texas Nonpoint Sourcebook
Sub Title:
Authors: Statewide Storm Water Quality Task Force
Publication Date: unknown
Source: Texas Department of Environmental Resources
Document Type: Stormwater BMP Handbook
Publication #:
Link: <http://www.txnpsbook.org/default.htm>
Format: Web - Based
Types of BMPs: Prevention: Housekeeping / Low Impact Development / Operations and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands
Sediment Control: Construction / Soil Erosion / Sediment Control
Depth of Information: Moderate
Nature of Information: Conceptual
Level of Detail: Low
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Not Applicable
Description: An online guide to stormwater BMPs. The guide includes background information on the impacts of urbanization on hydrology, programs for managing runoff, and section on stormwater runoff BMPs. BMPs are differentiated based on their roles in pollution prevention, runoff prevention, and stormwater treatment. Target pollutants are identified for each BMP as well as qualitative ratings of general BMP performance and operational considerations. Construction considerations are not addressed.
Notes: Not useful for MCES BMP Manual. Information is too general. Design computations are not included. Some figures are available on-line.

Urban Small Sites BMP Manual Annotated Bibliography

Stormwater BMP Manuals

Title: The Wisconsin Stormwater Manual
Sub Title:
Authors: Jeffery Prey
Publication Date: 1994
Source: Wisconsin Department of Natural Resources
Document Type: Stormwater Manual
Publication #: WR-349-94
Link:
Format: Hardcopy
Types of BMPs: Prevention: Housekeeping / Low Impact Development / Operations and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands /
Hydraulic Devices
Sediment Control: Construction / Soil Erosion / Sediment Control
Depth of Information: Comprehensive
Nature of Information: Conceptual
Level of Detail: Medium
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Applicable
Description: Covers a broad range of subjects including pollution prevention measures, alternatives for administration and financing, state and federal stormwater regulations, guidelines for stormwater planning, and model stormwater plans.
Notes: A general manual based on BMP reviews and basic concepts.

Urban Small Sites BMP Manual Annotated Bibliography

Stormwater BMP Manuals

Title: Water Related Best Management Practices in the Landscape.
Sub Title: Water Runoff Management
Authors: Center for Sustainable Design, Mississippi State University
Publication Date: 1999
Source: Center for Sustainable Design, Mississippi State University
Document Type: BMP Fact Sheets
Publication #:
Link: <http://grapevine.abe.msstate.edu/csd/>
Format: Digital - pdf
Types of BMPs: Prevention: Housekeeping / Low Impact Development / Operations and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands / Hydraulic Devices
Sediment Control: Construction / Soil Erosion / Sediment Control
Depth of Information: cursory
Nature of Information: Conceptual / Design
Level of Detail: Low to Medium
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Applicable
Description: The compendium was created to provide a concise and easily used source of information about the best management practices (BMP's) available for storm water management, erosion control, and protection of natural systems put at risk by the absence of such BMP's. The compendium is not intended as a complete manual for the implementation of each BMP. Such a document could not be contained within a single volume. Rather, it is intended as an entry into the wealth of information on this subject. The document was created specifically for the NRCS urban conservationists, but it is hoped that it will be a useful resource for city planners, developers, homeowners, students, and anyone else who has a vested interest in this area.
Notes: Detail varies by BMP. Specific drawings, but not clear.

Urban Small Sites BMP Manual

Annotated Bibliography

Region Specific Stormwater BMP – Cold Climate

Title: Best Practices for Street Sweeping
Sub Title:
Authors: Metropolitan Council
Publication Date: 1994
Source: Metropolitan Council
Document Type: BMP Manual
Publication #: 71-94-020A
Link: <http://www.txnpsbook.org/client2.htm>
Format: Web-based - HTML
Types of BMPs: Prevention: Housekeeping / Operations and Maintenance
Stormwater: None
Sediment Control: Sediment Control
Depth of Information: Cursory
Nature of Information: General
Level of Detail: Low
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Specific
Description: A summary of findings from a small demonstration project that identifies a total of 66 “best practices” in street sweeping by public works departments in the Twin Cities metropolitan area.
Notes: General information. Useful for developing and maintaining a sweeping program.

Urban Small Sites BMP Manual

Annotated Bibliography

Region Specific Stormwater BMP – Cold Climate

Title: Better Site Design

Sub Title: Watershed Protection Techniques

Authors: Center for Watershed Protection

Publication Date: 1999

Source: Quarterly Bulletin on Urban Watershed Restoration and Protection Tools, Vol 3.2

Document Type: Journal Article

Publication #: Vol. 3, No. 2

Link:

Format: Hardcopy

Types of BMPs: Prevention: Low Impact Development
Stormwater: Infiltration / Filtration
Sediment Control: Soil Erosion Control

Depth of Information: General

Nature of Information: Conceptual / Design

Level of Detail: Medium

Applicability to Small Sites: Applicable

Applicability to Cold Climate: Applicable

Description: A special issue with articles focusing on model land development principles that can reduce impervious cover, conserve natural areas and improve stormwater treatment, quantifying economic and environmental benefits associated with better site design, benefits of open space design in new residential subdivisions, better parking lot design, and local site planning roundtables.

Notes: Good general information on impervious surface reduction. There is limited filtration system information. Good background information on urban soils, compaction, and nutrient effects on natural wetlands.

Urban Small Sites BMP Manual

Annotated Bibliography

Region Specific Stormwater BMP – Cold Climate

Title: Better Site Design

Sub Title: A Handbook for Changing Development Rules in Your Community

Authors: Center for Watershed Protection

Publication Date: 1998

Source: Center for Watershed Protection

Document Type: General BMP Low Impact Development Manual

Publication #:

Link: <http://www.cwp.org/>

Format: Hardcopy

Types of BMPs: Prevention: Housekeeping / Low Impact Development
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands
Sediment Control: Soil Erosion / Sediment Control

Depth of Information: General

Nature of Information: Cursory/ Conceptual

Level of Detail: Medium

Applicability to Small Sites: Applicable

Applicability to Cold Climate: Applicable

Description: This document is the culmination of the Site Planning Roundtable, a consensus process initiated to create more environmentally sensitive, economically viable, and locally appropriate development. The primary audience for this manual is the local planner, engineer, developer, and official involved in the designing and building of new communities.

Notes: Emphasis on impervious surface reduction. Provides model principles for BMPs including current practice, recommended practice, perceptions and realities, economic benefits and case studies. Good low impact development and impervious surface reduction information.

Urban Small Sites BMP Manual

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Region Specific Stormwater BMP – Cold Climate

Title: Costs of Urban Nonpoint Source Water Pollution Control Measures
Sub Title: Technical Report Number 31
Authors: Southeastern Wisconsin Regional Planning Commission
Publication Date: June, 1991
Source: Southeastern Wisconsin Regional Planning Commission
Document Type: Stormwater BMP Design Manual
Publication #:
Link:
Format: Hardcopy
Types of BMPs: Prevention: Housekeeping / Operations and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration
Sediment Control: Construction / Soil Erosion / Sediment Control
Depth of Information: General
Nature of Information: Conceptual / Design
Level of Detail: High – varies by BMP
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Applicable
Description: The primary purpose of this report is to provide assistance in estimating the capital and annual operation and maintenance costs of urban nonpoint source water pollution control measures including: wet detention basins, infiltration trenches, infiltration basins, grassed swales, vegetated filter strips, porous pavement, catch basin cleaning, and street sweeping. Cost data are also presented for nine temporary construction erosion control measures: filter fabric fences, straw bales carriers, diversion swales, inlet protection devices, temporary seeding, mulching, sodding, sediment traps, and sedimentation basins.
Notes: Limited description of BMPs. Detail limited to bullet point guidelines. Includes street sweeping effectiveness and cost comparisons of operations and maintenance for BMP's. Includes a chapter on construction erosion control measures which may be useful for the BMP manual.

Urban Small Sites BMP Manual

Annotated Bibliography

Region Specific Stormwater BMP – Cold Climate

Title: National Stormwater Best Management Practices (BMP) Database
Sub Title: A new tool for evaluating stormwater BMP effectiveness
Authors: American Society of Civil Engineers
Publication Date: 1999
Source: ASCE
Document Type: Hard Copy and CD
Publication #:
Link:
Format: BMP Manual Database
Types of BMPs: Prevention: Low Impact Development / Operations and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands / Hydraulic Devices
Sediment Control: Construction / Soil Erosion / Sediment Control
Depth of Information: General
Nature of Information: Data
Level of Detail: High
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Applicable
Description: The database was developed as a scientifically based approach and management tool for the information needed to evaluate the effectiveness of urban stormwater BMP's nationwide. The purpose of the database is to promote technical design improvements for BMP's and to better match their selection and design to the local stormwater problems being addressed.
Notes: Specific site information for Minnesota is included. A good resource when comparing and selecting BMPs.

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Region Specific Stormwater BMP – Cold Climate

Title: Nutrient Loading and Conventional and Innovative Site Development
Sub Title:
Authors: Center for Watershed Protection
Publication Date: 1998
Source: The Center for Watershed Protection
Document Type: General BMP Low Impact Development Manual
Publication #:
Link:
Format: Hardcopy
Types of BMPs: Prevention: Low Impact Development / Operations and Maintenance
Stormwater: None
Sediment Control: None
Depth of Information: General
Nature of Information: Cursory/ Conceptual
Level of Detail: High
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Applicable
Description: This study documents the comparative nutrient export and economic benefits of conventional and innovative site planning techniques.
Notes: Provides comparisons between “typical” development and “innovative design” for medium and low density residential, retail shopping, and commercial office park development. Includes SUNOM – Simplified Urban Nutrient Output Model, draft consensus of model development principles.

Urban Small Sites BMP Manual

Annotated Bibliography

Region Specific Stormwater BMP – Cold Climate

Title: Quantity and Quality of Runoff from Selected Guttered and Unguttered Roadways in Northeastern Ramsey County, Minnesota

Sub Title:

Authors: Gregory B. Mitton and Gregory A. Payne

Publication Date: 1997

Source: USGS

Document Type: BMP Performance Report

Publication #: 96-4284

Link:

Format: Hardcopy

Types of BMPs: Prevention: None
Stormwater: Filtration / Infiltration
Sediment Control: None

Depth of Information: Comprehensive

Nature of Information: Conceptual

Level of Detail: High

Applicability to Small Sites: Applicable

Applicability to Cold Climate: Specific

Description: This report describes the quantity and quality of runoff from selected municipal roadway sections in northeastern Ramsey County. The data were collected from five roadways that were guttered or unguttered, and include rainfall- and snowmelt-runoff events monitored during 1993-1995.

Notes: A good resource for rainfall and runoff trends in the Minneapolis region.

Urban Small Sites BMP Manual Annotated Bibliography

Region Specific Stormwater BMP – Cold Climate

Title: Riparian Buffer Strategies

Sub Title:

Authors: Metropolitan Washington Council of Governments

Publication Date: 1995

Source: Metropolitan Washington Council of Government

Document Type: BMP Manual

Publication #: 95703

Link:

Format: Hardcopy

Types of BMPs: Prevention: Housekeeping / Operations and Maintenance
Stormwater: Filtration / Infiltration
Sediment Control: Construction / Soil Erosion / Sediment Control

Depth of Information: Comprehensive

Nature of Information: Conceptual

Level of Detail: High

Applicability to Small Sites: Applicable

Applicability to Cold Climate: Specific

Description: This document is organized into four chapters. The first chapter presents an overview of current buffer programs, particularly those designed to achieve water quality objectives. This is followed by a chapter on the pollutant removal mechanisms of urban riparian buffers. The third chapter describes design criteria for water quality buffers and the final chapter presents guidelines for implementing buffer programs.

Notes: Comprehensive descriptions of buffer purpose, maintenance, and performance.

Urban Small Sites BMP Manual

Annotated Bibliography

Region Specific Stormwater BMP – Cold Climate

Title: Site Planning for Urban Stream Protection

Sub Title:

Authors: The Center for Watershed Protection

Publication Date: December, 1995

Source: The Center for Watershed Protection

Document Type: Stormwater BMP Design Manual

Publication #: 95708

Link:

Format: Hardcopy

Types of BMPs: Prevention: Low Impact Design
Stormwater: Detention / Retention / Infiltration / Constructed Wetlands
Sediment Control: Soil Erosion / Sediment Control

Depth of Information: Cursory

Nature of Information: Conceptual / Design

Level of Detail: Medium

Applicability to Small Sites: Applicable

Applicability to Cold Climate: Applicable

Description: This manual is organized into seven topic areas including stream protection strategy, impervious surface reduction, watershed-based zoning, stream protection clusters, architecture of stream buffers, headwater streets, and green parking lots.

Notes: Good resource for specific BMP details regarding stream corridors. Good information on parking lots and cul-de-sac designs near streams and creeks.

Urban Small Sites BMP Manual

Annotated Bibliography

Region Specific Stormwater BMP – Cold Climate

Title: Stormwater BMP Design Supplement for Cold Climates

Sub Title:

Authors: Center for Watershed Protection

Publication Date: 1997

Source: Center for Watershed Protection

Document Type: Stormwater BMP Design Manual

Publication #:

Link: <http://www.cwp.org/>

Format: Hardcopy

Types of BMPs: Prevention: None
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands
Erosion / Sediment Control: None

Depth of Information: Comprehensive

Nature of Information: Conceptual / Design

Level of Detail: High

Applicability to Small Sites: Applicable

Applicability to Cold Climate: Specific

Description: Specifically addresses issues that arise when BMPs are constructed in cold climates. Focuses on runoff treatment BMPs. Includes examples of BMP design and sizing computations that address cold climate issues.

Notes: This manual provides information essential to the planing and design of BMPs in Minnesota. Very informative – good source for treatment BMPs. Excellent source for figures which illustrate BMP and outlet design. Provides info on cold sensitive plants as well as construction guidelines to minimize the impact of freezing temperatures on stormwater BMPs.

Urban Small Sites BMP Manual

Annotated Bibliography

Region Specific Stormwater BMP – Cold Climate

Title: Storm-Water and Wetlands

Sub Title: Planning and Evaluation Guidelines for Addressing Potential Impacts of Urban Storm-Water and Snow-Melt Runoff on Wetlands

Authors: State of Minnesota Storm-Water Advisory Group

Publication Date: June, 1997

Source: Minnesota Pollution Control Agency

Document Type: Stormwater BMP Design Manual

Publication #:

Link:

Format: Hardcopy

Types of BMPs: Prevention: Low Impact Development
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands
Sediment Control: Soil Erosion / Sediment Control

Depth of Information: Comprehensive

Nature of Information: Conceptual / Design

Level of Detail: High for wetland impacts

Applicability to Small Sites: Applicable

Applicability to Cold Climate: Specific to Minnesota

Description: The purpose of this document is to provide guidance to local governmental units (LGUs) on what they must do if they wish to protect wetlands from storm-water and snow-melt discharges to wetlands. The implementation of urban storm-water management plans that minimize adverse impacts to wetlands and other waters can be achieved through the use of a comprehensive management approach. All elements of a storm-water plan must consider a watershed or other large-scale areas as opposed to piecemeal, project-by-project approaches.

Notes: Excellent system for rating quality of wetlands and susceptibility to stormwater input.

Urban Small Sites BMP Manual

Annotated Bibliography

Region Specific Stormwater BMP – Cold Climate

Title: Urban Landscapes as a Source of Phosphorus in Surface Waters

Sub Title:

Authors: Jenni Swenson

Publication Date: September, 1998

Source: Metropolitan Council

Document Type: Stormwater BMP Manual

Publication #:

Link:

Format: Hardcopy

Types of BMPs: Prevention: Housekeeping / Low Impact Development / Operations and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands
Sediment Control: Soil Erosion / Sediment Control

Depth of Information: General

Nature of Information: Conceptual

Level of Detail: Medium

Applicability to Small Sites: Applicable

Applicability to Cold Climate: Specific / Applicable

Description: Through efficient land use practices, including cleaning gutters, the proper application and timing of fertilizer, and refraining from sweeping or raking organic debris into streets, homeowners can prevent contributing to the phosphorus load.

Notes: Very good information source for phosphorus loading and removal effectiveness of BMPs.

Urban Small Sites BMP Manual

Annotated Bibliography

Region Specific Stormwater BMP – Cold Climate

Title: Watershed Protection Techniques
Sub Title: Vol. 1 No. 2 – Summer 1994
Authors: Center for Watershed Protection
Publication Date: 1994
Source: Quarterly Bulletin on Urban Watershed Restoration and Protection Tools, Vol 3.2
Document Type: Journal Article
Publication #: Vol. 1 No. 2 – Summer 1994
Link:
Format: Digital - pdf
Types of BMPs: Prevention: Housekeeping / Low Impact Development / Operations and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands
Sediment Control: Construction / Soil Erosion / Sediment Control
Depth of Information: Cursory
Nature of Information: Conceptual / Design
Level of Detail: High – varies by BMP
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Applicable/Specific
Description: Technical information on stormwater ponds, pond/wetland systems. Snowmelt runoff dynamics.
Notes: Topics covered include: performance of stormwater ponds, pond/wetland systems, golf course BMP's, wetland creations tips.

Urban Small Sites BMP Manual

Annotated Bibliography

BMP Performance and Performance Enhancement

Title: Development of Performance Standards: Task 3.1 – Technical Memorandum

Sub Title: Determining Urban Stormwater Best management Practice (BMP) Removal Efficiencies

Authors: U.S. EPA and ASCE

Publication Date: 1999

Source: Office of Water, U.S. EPA

Document Type: Stormwater Manual

Publication #:

Link:

Format: Digital - pdf

Types of BMPs: Prevention: Operations and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands
Sediment Control: Construction / Soil Erosion / Sediment Control

Depth of Information: Comprehensive

Nature of Information: Calculations

Level of Detail: Medium

Applicability to Small Sites: Applicable

Applicability to Cold Climate: Applicable

Description: Technical review of efficiency calculation methods, methods to be used for analysis of stormwater best management practices.

Notes: Relevant technical calculation information. Includes comparisons of different methods used for rainfall and storm analysis.

Urban Small Sites BMP Manual

Annotated Bibliography

BMP Performance and Performance Enhancement

Title: Low Impact Development (LID)
Sub Title: A Literature Review
Authors: Low-Impact Development Center
Publication Date: October, 2000
Source: Office of Water, EPA
Document Type: BMP Performance Review
Publication #: EPA-841-B-00-005
Link: <http://www.epa.gov/owow/nps/lid.pdf>
Format: Digital - pdf
Types of BMPs: Prevention: Low Impact Development / Operations and Maintenance
Stormwater: Filtration / Infiltration
Sediment Control: None

Depth of Information: Comprehensive
Nature of Information: Conceptual / Design
Level of Detail: Medium
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Applicable
Description: A literature review to determine the availability and reliability of data to assess the effectiveness of low impact development (LID) practices for controlling stormwater runoff volume and reducing pollutant loadings to receiving waters.

Notes: Brief general reviews of bioretention systems including grass buffer strips, sand beds, ponding areas, organic layers, planting soils, grass roofs, and vegetation. Describes the performance, operation and maintenance of six case studies in the U.S.

Urban Small Sites BMP Manual

Annotated Bibliography

BMP Performance and Performance Enhancement

Title: Maintaining Your Stormwater Management Structure

Sub Title:

Authors: Geiser, Lou

Publication Date: 1999

Source: Howard County, Maryland

Document Type: Journal Article

Publication #:

Link:

Format: Digital - pdf

Types of BMPs: Prevention: None
Stormwater: Detention / Retention / Infiltration / Filtration
Sediment Control: None

Depth of Information: Moderate

Nature of Information: Conceptual

Level of Detail: Medium

Applicability to Small Sites: Applicable

Applicability to Cold Climate: Applicable

Description: This is a brief manual which prescribes maintenance practices to maximize the longevity and performance of common stormwater BMPs. Treatment methods for retention and detention ponds, infiltration devices, grit chambers and underground structures are presented. The information in this manual is qualitative in nature.

Notes: The maintenance information provided in this publication is a compendium of information from other sources. Information is general in nature. Not likely to be useful for the BMP manual.

Urban Small Sites BMP Manual

Annotated Bibliography

BMP Performance and Performance Enhancement

Title: Preliminary Data Summary of Urban Storm Water Best Management Practices

Sub Title:

Authors: Environmental Protection Agency

Publication Date: 1999

Source: Office of Water, EPA

Document Type: Hardcopy

Publication #: EPA-821-R-RR-99-012

Link: <http://www.epa.gov/OST/stormwater/>

Format: BMP Manual

Types of BMPs: Prevention: Housekeeping / Low Impact Development / Operations and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands / Hydraulic Devices
Sediment Control: Construction / Soil Erosion / Sediment Control

Depth of Information: General

Nature of Information: Calculations, costs, and statistics

Level of Detail: High

Applicability to Small Sites: Applicable

Applicability to Cold Climate: Applicable

Description: This report summarizes existing information and data regarding the effectiveness of BMP's to control and reduce pollutants in urban stormwater. The report provides a synopsis of what is currently known about the expected costs and environmental benefits of BMP's, and identifies information gaps as well.

Notes: Relevant technical operational and maintenance information. Includes comparison of different methods used and respective costs.

Urban Small Sites BMP Manual

Annotated Bibliography

Stormwater BMP Design Specs, Construction, O & M Costs

Title: Best Management Practices for Erosion and Sediment Control

Sub Title:

Authors: U.S. Department of Transportation – Eastern Federal Lands Highway Division

Publication Date: June, 1995

Source: U.S. Department of Transportation – Eastern Federal Lands Highway Division

Document Type: Other

Publication #: FHWA – FLP – 94 - 005

Link: <http://www.fhwa.dot.gov/environment/h2o.htm>

Format: Digital - pdf

Types of BMPs: Prevention: Housekeeping / Low Impact Development / Operations and Maintenance
Stormwater: Detention Basins, Site Development, Hydraulic Structures
Sediment Control: Construction / Soil Erosion / Sediment Control

Depth of Information: Comprehensive

Nature of Information: Conceptual / Design

Level of Detail: High

Applicability to Small Sites: Applicable

Applicability to Cold Climate: Applicable

Description: This reference is a federal highway standards manual that serves to provide consistent guidance in the prevention of soil erosion and control of sediment. The manual emphasizes practices that can be employed during construction activities, thereby facilitating sound construction practices and the reduction of sediment loading to stormwater.

Notes: Emphasis is on erosion and sediment control. Very good source for methods of protecting and stabilizing soil, reducing sediment loads, and protecting downstream resources. Features design diagrams, construction recommendations, sequencing guidelines and maintenance requirements. Includes standard rating curves and sizing monographs for design outlets.

Urban Small Sites BMP Manual

Annotated Bibliography

Stormwater BMP Design Specs, Construction, O & M Costs

Title:	Controlling Urban Runoff
Sub Title:	A practical Manual for Planning and Designing Urban BMPs
Authors:	Thomas R. Schueler
Publication Date:	July, 1987
Source:	Metropolitan Washington Council of Governments
Document Type:	Stormwater BMP Design Manual
Publication #:	87703
Link:	
Format:	Hardcopy
Types of BMPs:	Prevention: Housekeeping / Low Impact Development / Operations and Maintenance Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands / Hydraulic Devices Sediment Control: Construction / Soil Erosion / Sediment Control
Depth of Information:	Comprehensive
Nature of Information:	Conceptual / Design
Level of Detail:	High – varies by BMP
Applicability to Small Sites:	Applicable
Applicability to Cold Climate:	Somewhat Applicable
Description:	The manual summarizes local and national research on BMP performance, design and costs, as well as the practical experience gained in urban BMP implementation at the local level. Specific attention includes extended detention ponds, wet ponds, infiltration trenches, infiltration basins, porous pavement, water quality inlets, vegetative systems, stormwater benefits, performance, costs, maintenance.
Notes:	Detail varies by BMP. Generally an excellent resource for the BMP manual. Not all BMPs have figures. Figures that are included are good quality.

Urban Small Sites BMP Manual

Annotated Bibliography

Stormwater BMP Design Specs, Construction, O & M Costs

Title: Design of Stormwater Filtering Systems

Sub Title:

Authors: Richard A. Claytor and Thomas R. Schueler

Publication Date: December , 1999

Source: The Center for Watershed Protection

Document Type: Stormwater Design Manual

Publication #:

Link: <http://www.cwp.org/>

Format: Hardcopy

Types of BMPs: Prevention: Housekeeping / Low Impact Development / Operations and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands / Hydraulic Devices
Sediment Control: Construction / Soil Erosion / Sediment Control

Depth of Information: Comprehensive

Nature of Information: Design

Level of Detail: High

Applicability to Small Sites: Applicable / Specific

Applicability to Cold Climate: Applicable

Description: The manual presents detailed engineering guidance on eleven different filtering systems. The term stormwater filter refers to a diverse spectrum of stormwater treatment methods utilizing various media, such as sand, peat, grass, soil or compost to filter out pollutants entrained in urban stormwater. These filters are typically designed solely for pollutant removal, and serve small development sties. The three broad groups include: sand filters (surface, underground, perimeter, organic, and pocket designs), bioretention, and vegetated channels (grass channels, dry swales and wet swales, filter strips, and gravel wetlands).

Notes: Very detailed figures and design criteria descriptions. Includes calculations and small site specifics. Excellent manual for Stormwater sections of BMP manual.

Urban Small Sites BMP Manual

Annotated Bibliography

Stormwater BMP Design Specs, Construction, O & M Costs

Title: Design of Stormwater Wetland Systems

Sub Title: Guidelines for Creating Diverse and Effective Stormwater Wetland Systems in the Mid-Atlantic Region

Authors: Thomas R. Schueler

Publication Date: 1992

Source: Metropolitan Washington Council of Governments

Document Type: General BMP Manual

Publication #: 92710

Link:

Format: Hardcopy

Types of BMPs: Prevention: None
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands / Hydraulic Devices
Sediment Control: None

Depth of Information: Comprehensive

Nature of Information: Design

Level of Detail: High

Applicability to Small Sites: Applicable

Applicability to Cold Climate: Applicable / Somewhat Specific

Description: This manual presents an integrated and comprehensive approach toward the design of stormwater wetlands for the mid-Atlantic region. The manual summarizes what is currently known, drawn from an extensive review of local and national research, as well as the practical experience and insights of local stormwater experts.

Notes: The standard for constructed wetland and stormwater wetland systems. Excellent figures.

Urban Small Sites BMP Manual

Annotated Bibliography

Stormwater BMP Design Specs, Construction, O & M Costs

Title: EPA Storm Water Technology Fact Sheets

Sub Title: Vegetated Swales, Sand Filters, Bioretention, Flow Diversion, Minimizing Effect from Highway Deicing, Hydrodynamic Separators, Infiltration Drainfields, Infiltration Trench, Storm Water Wetlands, , Water Quality Inlets, Modular Treatment Systems, Wet Detention Ponds

Authors: U.S. EPA

Publication Date: 1999

Source: Office of Water, U.S. EPA

Document Type: BMP Fact Sheet

Publication #: EPA 832-F-99-006, EPA 832-F-99-007, EPA 832-F-99-012, EPA 832-F-99-014, EPA 832-F-99-016, EPA 832-F-99-017, EPA 832-F-99-018, EPA 832-F-99-019, EPA 832-F-99-025, EPA- 832-F-99-029, EPA 832-F-99-044, EPA 832-F-99-048

Link: <http://www.epa.gov/owm/mtbfact.htm>

Format: PDF

Types of BMPs: Prevention: Housekeeping / Low Impact Development / Operations and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands / Hydraulic Devices
Sediment Control: Construction / Soil Erosion / Sediment Control

Depth of Information: Comprehensive

Nature of Information: Conceptual / Design

Level of Detail: High

Applicability to Small Sites: Applicable

Applicability to Cold Climate: Applicable

Description: A series of BMP fact sheets including figures, drawings, calculation tables on applicability, design criteria, performance and operation and maintenance.

Notes: Good information and drawings. Good advantages and disadvantages sections. Excellent format for BMP manual.

Urban Small Sites BMP Manual

Annotated Bibliography

Stormwater BMP Design Specs, Construction, O & M Costs

Title: Minnesota Construction Site Erosion and Sediment Control Planning Handbook
Sub Title:
Authors: Minnesota Board of Water and Soil Resources and the Association of Metropolitan Soil and Water Conservation Districts.
Publication Date: 1989
Source: Minnesota Board of Water and Soil Resources and the Association of Metropolitan Soil and Water Conservation Districts.
Document Type: Erosion and Sediment Control BMP Manual
Publication #:
Link:
Format: Hardcopy
Types of BMPs: Prevention: Low Impact Development / Operation and Maintenance
Stormwater: Detention / Retention
Sediment Control: Construction / Soil Erosion / Sediment Control
Depth of Information: Comprehensive
Nature of Information: Design
Level of Detail: Medium
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Applicable / Specific
Description: The handbook begins with a chapter listing the General Criteria (GC) for E & S control. Chapter two is a description of how to prepare an erosion and sediment control plan. Chapter three relates to information the plan reviewer needs to ensure adequate protection.
Notes: Includes a detailed section on selecting the correct BMP for the specific location, a section on example BMP practices in use in Minnesota, and small section detailing silt fences, sediment basins, slope draining, lot benching, subsurface drainage, lined channels and many others. Material may be dated.

Urban Small Sites BMP Manual

Annotated Bibliography

Stormwater BMP Design Specs, Construction, O & M Costs

Title:	Rainwater and Land Development
Sub Title:	Ohio's standards for Stormwater Management
Authors:	Dan Mecklenburg
Publication Date:	1996
Source:	Ohio Department of Natural Resources, Division of Soil and Water Conservation
Document Type:	Stormwater Management BMP Manual
Publication #:	
Link:	
Format:	Hardcopy
Types of BMPs:	Prevention: Housekeeping / Low Impact Development / Operations and Maintenance Stormwater: Detention / Retention / Infiltration / Filtration / Constructed Wetlands / Hydraulic Devices Sediment Control: Construction / Soil Erosion / Sediment Control
Depth of Information:	Comprehensive
Nature of Information:	Conceptual / Design
Level of Detail:	High – varies by BMP
Applicability to Small Sites:	Applicable
Applicability to Cold Climate:	Applicable / Specific
Description:	Streams, inclusive of their riparian areas, are vital environmental features and extremely sensitive to urbanization. The intent for this book is to allow land development to occur with less of an impact on water resources, principally streams. The manual has three parts, starting with a general framework for integrating water resource protection into site planning. The second part is three chapters on post-construction pollution prevention: post-construction stormwater quality treatment, permanent runoff control and stream channel construction and restoration. The last four chapters includes present standards and specifications for sediment control, temporary runoff control, soil stabilization and construction pollutants other than sediment.
Notes:	Excellent figures and photographs. Specific design computations with an emphasis on erosion and sediment control. Includes an excellent video training course titles, "Keeping Soil on Construction Sites: Best Management Practices."

Urban Small Sites BMP Manual

Annotated Bibliography

Stormwater BMP Design Specs, Construction, O & M Costs

Title: Ramsey County Erosion and Sediment Control Handbook

Sub Title:

Authors: Ramsey Soil and Water Conservation District

Publication Date: 1989

Source: Ramsey Soil and Water Conservation District

Document Type: Erosion and Sediment Control BMP Manual

Publication #:

Link:

Format: Hardcopy

Types of BMPs: Prevention: Low Impact Development / Operation and Maintenance
Stormwater: Detention / Retention / Infiltration / Filtration
Sediment Control: Construction / Soil Erosion / Sediment Control

Depth of Information: Comprehensive

Nature of Information: Design

Level of Detail: High

Applicability to Small Sites: Applicable

Applicability to Cold Climate: Applicable / Specific

Description: This handbook contains the operational elements of the Ramsey County Coordinated Erosion and Sediment Control Pilot Program. It provides information to prepare an erosion and sediment control plan, to have it approved, and to put it into practice. People responsible for the design, use, installation, and inspection of erosion and sediment control should be guided by the information contained in this handbook and by their professional judgement.

Notes: Includes erosion and sedimentation processes and practices to utilize in erosion and sediment control. Most examples are general and the figures are low quality.

Urban Small Sites BMP Manual

Annotated Bibliography

Stormwater BMP Design Specs, Construction, O & M Costs

Title: Wisconsin Construction Site
Sub Title: Best Management Practice Handbook
Authors: Wisconsin Department of Natural Resources
Publication Date: 1994
Source: Wisconsin Department of Natural Resources
Document Type: Stormwater BMP Design Manual
Publication #: WR-222-93
Link:
Format: Hardcopy
Types of BMPs: Prevention: Operations and Maintenance
Stormwater: Detention / Filtration
Sediment Control: Construction / Soil Erosion / Sediment Control
Depth of Information: Comprehensive
Nature of Information: Conceptual / Design
Level of Detail: Medium
Applicability to Small Sites: Applicable
Applicability to Cold Climate: Applicable
Description: A general manual to supplement the Model Ordinance in Wisconsin based on the following principles: diversion of clean water around disturbed areas, minimized duration of disturbance and area size, implementation of temporary measure pollutants, utilization of runoff channels, and BMP maintenance.
Notes: Includes computations and general guidelines for erosion and sediment control. Figures and few and low quality.